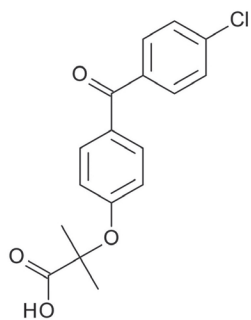
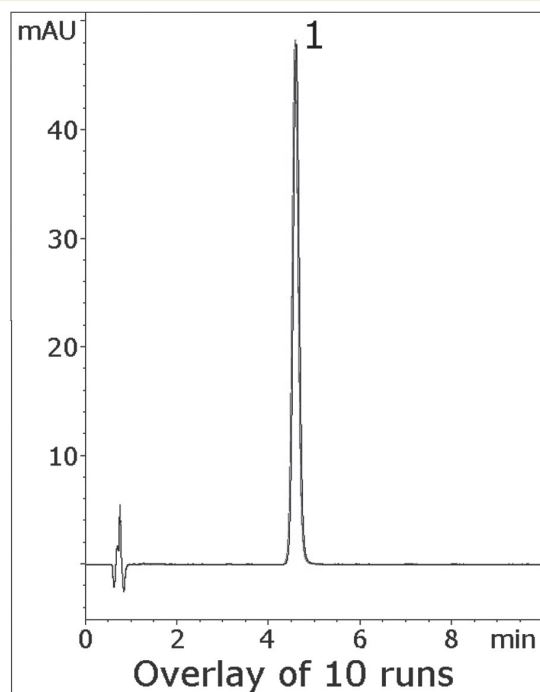


# Fenofibric Acid Capsule (Trilipix®)

Simple isocratic LC-MS compatible assay method



Fenofibric Acid

**Note:** Fenofibric acid is used to moderate cholesterol levels for patients at risk for cardiovascular diseases. It lowers the amount of triglycerides and low-density lipoprotein (LDL) cholesterol, as well as increases the amount of high-density lipoprotein (HDL) cholesterol. It is often used in combination with statins.

## Method Conditions

**Column:** Cogent Bidentate C18™, 4µm, 100Å

**Catalog No.:** 40018-75P

**Dimensions:** 4.6 x 75 mm

**Mobile Phase:** 50% DI H<sub>2</sub>O / 50% acetonitrile / 0.1% formic acid (v/v)

**Injection vol.:** 1µL

**Flow rate:** 1.0 mL/min

**Detection:** UV 285 nm

**Sample:** 135 mg strength Trilipix delayed release capsule contents were ground with a mortar and pestle. The contents were added to a 100 mL volumetric flask containing 50 mL methanol. The flask was sonicated 10 min and diluted to mark with methanol. Then a portion was filtered with a 0.45µm nylon filter (MicroSolv Tech Corp.). 100µL of filtrate was diluted with 900µL of methanol.

**Peak:** 1. Fenofibric acid

## Discussion

The USP assay method for fenofibric acid uses a phosphate buffer which is incompatible with MS detection. In this isocratic method, only formic acid is needed in the mobile phase. The peak efficiency and symmetry are excellent in this method. In addition, the run-to-run precision is reliable and robust, as shown in the 10-run overlay in the figure.